

## EAST Search History

S1	26	((VILI) near2 (RAVANKO)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:27
S2	12	((VILI) near2 (RAVANKO)).INV.	EPO; JPO; DERWENT	NEAR	ON	2006/12/03 13:06
S3	10	((NINA) near2 (MAYRA)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:06
S4	0	((NINA) near2 (MAYRA)).INV.	EPO; JPO; DERWENT	NEAR	ON	2006/12/03 13:06
S5	93	((HEIKKI) near2 (HEIKKILA)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:06
S6	15	((HANNU) near2 (KOIVIKKO)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:07
S7	0	((PEKKA) near2 (KEKKI)).INV.	USPAT; USOCR	NEAR	ON	2006/12/03 13:07
S8	1	((HANNU) near2 (KALLIOMAKI)). INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:07
S9	7	((MATTI) near2 (TYLLI)).INV.	USPAT; USOCR	NEAR	ON	2006/12/03 13:07
S10	9	((MATTI) near2 (TYLLI)).INV.	EPO; JPO; DERWENT	NEAR	ON	2006/12/03 13:07
S11	6	((JOHANNA) near2 (NYGREN)).INV.	EPO; JPO; DERWENT	NEAR	ON	2006/12/03 13:08
S12	12	((MATTI) near2 (TYLLI)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:08
S13	8	((JOHANNA) near2 (NYGREN)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:08
S14	121	S1 or S5 or S2 or S3 or S9 or S10 or S11 or S12 or S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/12/03 13:09
S15	91	S14 and chromat\$	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:10
S16	33	S15 and saccharide	US-PGPUB; USPAT	NEAR	ON	2006/12/03 13:10
S17	17	S16 and (monomer\$ or dimer\$ or trimer\$)	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:10
S18	12	(("3817787") or ("3864406") or ("5462864")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/03 13:24
S19	112893	chromatography and (sugar\$ or carbohydrate\$ or saccharide\$)	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:10

## EAST Search History

S20	21978	S19 and crosslink\$	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:12
S21	504	(separation or purification) NEAR5 (monosaccharide or disaccharide or saccharide)	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:12
S22	53	S20 and S21	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:13
S23	41	S22 and @ad<"20030204"	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:13
S24	28	S23 and (ion NEAR5 exchange)	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:14
S25	2	S24 and (monomer and dimer and trimer)	US-PGPUB; USPAT	NEAR	ON	2006/12/03 16:15
S26	2	("5,677,194").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/12/03 16:27
S27	21	("3817787").URPN.	USPAT	NEAR	ON	2006/12/04 14:00
S28	3	S27 and crosslink\$	USPAT	NEAR	ON	2006/12/04 14:01

## EAST Search History





L1	199	("2007971"   "2375165"   "2519573"   "2524414"   "2586295"   "2588449"   "2818851"   "2845136"   "2868677"   "2890972"   "2937959"   "2949389"   "2985589"   "3021374"   "3044904"   "3044905"   "3044906"   "3134814"   "3174876"   "3214293"   "3230167"   "3250058"   "3268605"   "3298527"   "3305395"   "3374606"   "3398512"   "3407574"   "3411342"   "3416961"   "3420709"   "3436897"   "3453811"   "3468607"   "3471329"   "3474908"   "3479248"   "3480665"   "3483031"   "3493497"   "3494103"   "3494104"   "3513023"   "3522172"   "3539505"   "3558725"   "3579380"   "3607392"   "3619369"   "3632656"   "3692582"   "3694158"   "3704168"   "3706812"   "3730770"   "3732982"   "3743539"   "3756855"   "3796657"   "3814253"   "3817787"   "3826905"   "3835043"   "3884714"   "3928062"   "3928193"   "3959519"   "3982003"   "4001112"   "4008285"   "4075406"   "4096036"   "4143169"   "4145230"   "4157267"   "4182633"   "4208284"   "4218438"   "4259186"   "4267054"   "4293346"   "4312678"   "4313015"   "4332623"   "4359430"   "4366060"   "4368268"   "4379751"   "4391649"   "4402832"   "4404037"   "4405455"   "4412366"   "4412866"   "4426232"   "4451489"   "4461649"   "4482761"   "4498991"   "4518436"   "4519845"   "4533398"   "4599115"   "4631129"   "4636315"   "4666527"   "4724006"   "4732687"   "4837315"   "4857642"   "4873111"   "4938804"   "4938974"   "4955363"   "4970002"   "4976865"   "4980277"   "4990259"   "5032156"   "5043171"   "5081026"   "5084104"   "5102553"   "5122275"   "5124133").PN. OR ("5127957"   "5177008"   "5198120"   "5382294"   "5384035"   "5387347"   "5482631"   "5494525"   "5637225"   "5730877"   "5770061"   "5773052"   "5795398"   "6093326"   "6187204").PN. OR ("6572775"). UPN.	US-PGPUB; USPAT; USOCR	NEAR	ON	2006/12/04 15:48
12/4/2006 3:49:03 PM		C:\Documents and Settings\Tissac\My Documents\EAST\Workspaces\047.wsp				Page 2

hed for:: :All of the words:**disaccharide** AND **monosaccharide** AND **synthesis** AND **ion** AND **exchange**  
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- ☐ 1. Synthesis and mesomorphic properties of glycosyl dialkyl- and diacyl-glycerols bearing saturated, unsaturated and methyl...  
**Milkereit, G. / Gerber, S. / Brandenburg, K. / Morr, M. / Vill, V., *Chemistry and Physics of Lipids*, May 2005**  
...2000) for the **synthesis** of the beta-anomers...silica gel **chromatography** no tedious **ion-exchange chromatography** was necessary...Compared to the **synthesis** of alkyl glycosides bearing **monosaccharide** or **disaccharide** carbohydrate...  
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- ☐ 2. Synthesis of two bidesmosidic ursolic acid saponins bearing a 2,3-branched trisaccharide residue  
**Wang, P. / Li, C. / Zang, J. / Song, N. / Zhang, X. / Li, Y., *Carbohydrate Research*, Sep 2005**  
...report the **synthesis** of the two...for saponin **synthesis**, the resulting...the (1-3)-**disaccharide** residue was...then another **monosaccharide** was to be...developed for the **synthesis** of bidesmosidic...Thin-layer **chromatography** (TLC) was...neutralized with **ion-exchange** resin (H...  
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- ☐ 3. Structural studies on the R-type lipopolysaccharide of *Aeromonas hydrophila*  
**Knirel, Y.A. / Vinogradov, E. / Jimenez, N. / Merino, S. / Tomas, J.M., *Carbohydrate Research*, Mar 2004**  
...hydrophila . All **monosaccharides** are in the...catalysing **synthesis** of GDP-d...15 mg) and a **monosaccharide** fraction, which...GlcN - 1d Hep **disaccharide** was eluted...ammonia. The **disaccharide** was deaminated...equipped with an **ion-trap** MS detector...Sephadex G-15. 3.7 **Monosaccharide** and methylation...  
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- ☐ 4. Synthesis of potential bisubstrate inhibitors of Leishmania elongating  $\alpha$ -d-mannosyl phosphate transferase  
**Borodkin, V.S. / Ferguson, M.A.J. / Nikolaev, A.V., *Tetrahedron Letters*, Jan 2004**  
...Elsevier Ltd **Synthesis** of potential...DD1 4HN, UK **Synthesis** of a potential...divalent metal **ion(s)** presumably...isolation by **ion-exchange chromatography**. 9 Encouraged...phosphonylated **monosaccharide** derivative...the desired **disaccharide** product 16...purification by **ion-exchange chromatography**. 13 Going...here the **synthesis** of a potential...  
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- ☐ 5. Preparative production and separation of 2-acetamido-2-deoxymannopyranoside-containing saccharides using...

**Petraskova, L. / Charvatova, A. / Prikrylova, V. / Kristova, V. / Rauvolfova, J. / Martinkova, L. / Jimenez-Barbero, J. / (...) / Kren, V.,** *Journal of Chromatography A*, Sep 2006  
...exclusion and **ion exchange chromatography** in borate...separations. **Ion-exchange HPLC** was...permeation **chromatography** Glycoside...the common **disaccharide** link between...2,6]. The **synthesis** of ManpNAc-containing...only for the **monosaccharides** GlcpNAc and...

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- ☐ **6. [Synthesis of fluorescence-labelled disaccharide substrates of glucosidase II](#)**  
**Cumpstey, I. / Butters, T.D. / Tennant-Eyles, R.J. / Fairbanks, A.J. / France, R.R. / Wormald, M.R.,** *Carbohydrate Research*, Sep 2003  
...involved the **synthesis** of the two required **disaccharides** as their...that further **monosaccharide** units may...glucosidase II. **Synthesis** of the Glcalpha (1- 3)Man **disaccharide** proceeded...by column **chromatography**. Selective...

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- ☐ **7. [Investigations of the transfructosylation reaction by fructosyltransferase from B. subtilis NCIMB 11871 for the...](#)**

**Baciu, I.E. / Jordening, H.J. / Seibel, J. / Buchholz, K.,** *Journal of Biotechnology*, Apr 2005

...1991), an **ion chromatograph**...Standards: The **monosaccharides**d-fructose,d-galactose...d-glucose, the **disaccharide** sucrose, melibiose...maximum 5%.

2.11.2 **Ion chromatograph**...system: RCM **monosaccharide** Ca2+column...3 Thin layer **chromatography**: TLC The aliquots...Preparative cation-**exchange chromatography**...

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- ☐ **8. [Synthesis and utility of sulfated chromogenic carbohydrate model substrates for measuring activities of...](#)**

**Clinch, K. / Evans, G.B. / Furneaux, R.H. / Rendle, P.M. / Rhodes, P.L. / Robertson, A.M. / Rosendale, D.I. / (...) / Wright, D.P.,** *Carbohydrate Research*, Jun 2002

...sulfates **Disaccharide** sulfate **Monosaccharide** sulfate exo...purification on **ion exchange** resin. 14...stage in the **synthesis**, and glycosyl...4)-linked **disaccharide** 7 in 59...however, **monosaccharide** derivative...By paper **chromatography** after 60...

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- ☐ **9. [Liquid Column Chromatography](#)**  
*Journal of Chromatography A*, Mar 2000






...Troltzsch, Ch.: (**Chromatography** with calixarene coated...pounds by using anion-**exchange** resin modified with...and Singh, P.P.: **Synthesis, ion exchange** propertie and applications...reversed-phase liquid **chromatography** using ethanol/water...

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**10. [Cumulative Subject index](#)**





- ☐ *Journal of the American Society for Mass Spectrometry*, Dec 2005  
...phase, using electrospray **ion** source as chemical reactor...dissociations, positive-**ion** MALDI-TOF-MS of, 13:1052...monophosphate, gas phase H/D **exchange** of, con-formational...classification of, 13:826 Affinity **chromatography**, in phosphopeptide quantification...technique, flowing, for **ion**-molecule reaction studies...  
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- ☐ **11. Bibliography section**  
*Journal of Chromatography A*, Jun 2002  
...enthalpic events in overloaded **ion-exchange chromatography**. I. Chromatogr. A, 944...of electrodes modified with **ion-exchange** polymers for the amperometric...and anions in combination to **ion chromatography**. Electrochim. Acta, 46 (2001)...  
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- ☐ **12. A concise and practical synthesis of antigenic globotriose,  $\alpha$ -d-Gal-(1 $\rightarrow$ 4)- $\beta$ -d-Gal-(1 $\rightarrow$ 4)- $\beta$ -d-Glc**  
**Chen, L. / Zhao, X.E. / Lai, D. / Song, Z. / Kong, F., Carbohydrate Research**, Jul 2006  
...very facile **synthesis** of the target...For the **synthesis** of 4, selective...86%). The **disaccharide** acceptor...a facile **synthesis** of globotriose...thin-layer **chromatography** (TLC) that...with acidic **ion-exchange** resin, the...  
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- ☐ **13. Recent advances in the chemistry of azapyranose sugars**  
**Afarinkia, K. / Bahar, A., Tetrahedron: Asymmetry**, Apr 2005  
...24 h (v) concd HCl, MeOH, reflux, 4 h (vi) basic **ion-exchange** resin (vii) PDC, molecular sieves 4 A, CH<sub>2</sub>Cl<sub>2</sub>...reflux, 2 h (xii) (a) 6 M HCl, reflux, 5 h, (b) **ion-exchange chromatography**. Scheme 16 Reagents and conditions: (i) K<sub>2</sub>OsO<sub>4</sub>...  
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- ☐ **14. Synthesis of new conformationally constrained pentasaccharides as molecular probes to investigate the biological...**  
**Sisu, E. / Tripathy, S. / Mallet, J.-M. / Driguez, P.-A. / Herault, J.-P. / Sizun, P. / Herbert, J.-M. / (...) / Sinay, P., Biochimie**, Jan 2003  
...for the **synthesis** of 2, see...reducing-end **disaccharides**, the corresponding H **monosaccharide** precursors...resulting **disaccharides** were then...detailed **synthesis** of 3 is discussed...by column **chromatography**. The trisaccharide...Bio-Rad) **ion exchange** column. Chemical...  
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- ☐ **15. Characterization of a Specific Arabinosyltransferase Activity Involved in Mycobacterial Arabinan Biosynthesis**  
**Khasnobis, S. / Zhang, J. / Angala, S.K. / Amin, A.G. / McNeil, M.R. / Crick, D.C. / Chatterjee, D., Chemistry & Biology**, Jul 2006  
...transfer of the **disaccharide** Arabeta1...terminal **disaccharide** beta-D-

Araf...arabinan **synthesis** and could...out at the **monosaccharide** level of...pentasaccharide. **Synthesis** of Building...after column **chromatography**). The benzyl...positive **ion** at m/z 813...strong anion **exchange** column (SAX...

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- ☐ **16.** [Modified mannose disaccharides as substrates and inhibitors of a polyprenol monophosphomannose-dependent...](#)  
**Subramaniam, V. / Gurcha, S.S. / Besra, G.S. / Lowary, T.L.,** *Bioorganic and Medicinal Chemistry*, Feb 2005  
...involved the **synthesis** of the protected **disaccharide**, 15 , which...obtained from **monosaccharides** 12 and 13 . 41 The **synthesis** commenced...mixture through an **ion-exchange** cartridge and...conditions, **disaccharides** 4 and 6 - 8...
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- ☐ **17.** [Synthesis of pentose-containing disaccharides using a thermostable  \$\alpha\$ -l-arabinofuranosidase](#)  
**Remond, C. / Plantier-Royon, R. / Aubry, N. / Maes, E. / Bliard, C. / O'Donohue, M.J.,** *Carbohydrate Research*, Aug 2004  
...adopted for the **synthesis** of oligosaccharides...oxocarbenium **ion** is formed. Importantly...hydrolases for the **synthesis** of a wide variety...AbfD3-mediated **synthesis** of homo-**disaccharides** To screen the...corresponding **monosaccharide**), indicating...
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- ☐ **18.** [Synthesis of mono- and disaccharide analogs of moenomycin and lipid II for inhibition of transglycosylase activity of...](#)  
**Garneau, S. / Qiao, L. / Chen, L. / Walker, S. / Vederas, J.C.,** *Bioorganic and Medicinal Chemistry*, Dec 2004  
...describe the **synthesis** of a series of extended **monosaccharide** analogs 4a...describe the **synthesis** of derivative...**Synthesis** of **disaccharides** 3a and 3b...groups. Their **synthesis** proceeds via...X8 (H + ) **ion exchange** resin as catalyst...
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- ☐ **19.** [Synthesis of the tetrasaccharide  \$\alpha\$ -d-Glcp-\(1 \$\rightarrow\$ 3\)- \$\alpha\$ -d-Manp-\(1 \$\rightarrow\$ 2\)- \$\alpha\$ -d-Manp-\(1 \$\rightarrow\$ 2\)- \$\alpha\$ -d-Manp recognized by...](#)  
**Gemma, E. / Lahmann, M. / Oscarson, S.,** *Carbohydrate Research*, Nov 2005  
...Scheme 2). The 2-OH **monosaccharide** acceptor9and  $\alpha$ -d-Man...2)- $\alpha$ -d-Man **disaccharide** acceptor11were...compound5were **exchanged** to benzyl groups...block6and the **disaccharide** acceptor11using...The coupling to **monosaccharide** acceptor9under...an efficient **synthesis** of the thioglycoside...
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- ☐ **20.** [An original chemoenzymatic route for the synthesis of  \$\beta\$ -d-galactofuranosides using an  \$\alpha\$ -l-arabinofuranosidase](#)  
**Remond, C. / Plantier-Royon, R. / Aubry, N. / O'Donohue, M.J.,**

*Carbohydrate Research*, Mar 2005

...Elsevier Ltd Scheme 1 **Synthesis** of the p -nitrophenyl...AbfD3-catalysed **synthesis** of **disaccharides** in presence of...that of the homo-**disaccharides** p -nitrophenyl...several other **monosaccharide** derivatives ( p...

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- ☐ 1. Diaion SP-850 resin as a new solid phase extractor for preconcentration-separation of trace metal ions in environmental...  
**Soylak, M. / Tuzen, M., *Journal of Hazardous Materials*, Oct 2006**  
...as previously reported[43]. **Diaion** SP-850 was purchased from Sigma...Louis, USA. The SEM image of **Diaion** SP-850 resin is shown in Fig...microstructure and granular grain. **Diaion** SP-850 is an aromatic type...standard grade and is based on **crosslinked** polystyrenic matrix. Its surface...  
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- ☐ 2. Adsorption of 5-sodiosulfoisophthalic acids from aqueous solutions onto acrylic ester polymer YWB-7 resin  
**Yang, W. / Li, A. / Zhang, Q. / Fei, Z. / Liu, F., *Separation and Purification Technology*, Nov 2005**  
...commercial Amberlite XAD-7, **Diaion** HP2MG and hypercrosslinked...contribution, YWB-7 resin, a new **crosslinked** polymer derived from multifunctional...Ltd., Philadelphia, USA), **Diaion** HP2MG (Mitsubishikasei Co...China). Amberlite XAD-7 and **Diaion** HP2MG resins were purchased...  
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- ☐ 3. Removal and recovery of boron from geothermal wastewater by selective ion exchange resins. I. Laboratory tests  
**Kabay, N. / Yilmaz, I. / Yamac, S. / Samatya, S. / Yuksel, M. / Yuksel, U. / Arda, M. / (...) / Hirowatari, K., *Reactive and Functional Polymers*, Jul 2004**  
...using N -glucamine type chelating resins so-called **Diaion** CRB 01, **Diaion** CRB 02, Purolite S 108. The batch-mode sorption studies...study was performed using weak base ion exchange resin **Diaion** WA 30 for the separation of boron from H 2 SO 4 solution...  
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- ☐ 4. Synthesis, characterization and application of a novel sorbent, glucamine-modified MCM-41, for the...  
**Kaftan, O. / Acikel, M. / Eroglu, A.E. / Shahwan, T. / Artok, L. / Ni, C., *Analytica Chimica Acta*, Aug 2005**  
...chelating resins, **Diaion** CRB-01, **Diaion** CRB 02 and Purolite S 108[15...wastewater, Amberlite IRA 743[14], **Diaion** CRB 01, **Diaion** CRB 02, and Purolite S 108[15...boron-specific resin by modification of **crosslinked** glycidyl methacrylate-based polymers...  
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- ☐ 5. PROCESS FOR PRODUCING PRODUCT CONTAINING PROANTHOCYANIDIN IN HIGH PROPORTION  
**TAKAGAKI, Kinya / YAMAGUCHI, Gotaro, *EUROPEAN PATENT APPLICATION*, Jun 2006**  
...anion exchange resins, **crosslinked** dextran derivatives...porous and made of a

**crosslinked** styrene resin and the...such adsorbents include **DIAION** (registered trademark...synthetic adsorbent, such as **DIAION** HP-20 and Amberlite...adsorbent made of a **crosslinked** dextran derivative...

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☐ 6. PROCESS FOR PRODUCING AROMATIC POLYCARBONATE

**HYOUDOU, Narutoshi / TANAKA, Tatsuo / HAYASHI, Kouichi, EUROPEAN PATENT APPLICATION**, May 2006

A subject for the invention relates to a method for coping with by-product phenol in which the water content of the by-product PL generated in a PC production step is limited to a value in a given range to thereby maintain a production efficiency in the ...

**Full text available at patent office. For more in-depth searching go to**  LexisNexis  
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☐ 7. Synthesis of chitosan resin possessing 3,4-diamino benzoic acid moiety for the collection/concentration of arsenic and...

**Sabarudin, A. / Oshita, K. / Oshima, M. / Motomizu, S., Analytica Chimica Acta**, Jun 2005

...Commercially available resin, for example **Diaion** PA316, with the functional group of trymethylammonium...Amberlite IRA-743, which has macroreticular **crosslinked** polystyrene matrices on which N-methyl-D-glucamine...cross-linked chitosan (CCTS) with the **crosslinker** of ethyleneglycoldiglycidylether (EDGE...

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☐ 8. Acidic polysaccharide gels for selective adsorption of lead (II) ion

**Dhakal, R.P. / Ghimire, K.N. / Inoue, K. / Yano, M. / Makino, K., Separation and Purification Technology**, Apr 2005

...heavy metal ion, on both **crosslinked** and chemically modified...Ltd., Japan, whereas **DIAION(R)**WK10 and WK11 resins...follows: 1.0 x 10<sup>2</sup>for **crosslinked** pectic acid, 0.7 x 10<sup>2</sup>for...amide, 0.4 x 10<sup>2</sup>for **crosslinked** alginic acid and 1.0...adsorption tests on the **DIAION** WK10 and WK11 resins...

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☐ 9. Method for monitoring the quality of a herbal medicine

**Nash, Robert James / Parry, Hadyn St. Pierre / Watson, Alison Ann, EUROPEAN PATENT APPLICATION**, Jun 2006


A method for producing a herbal medicine comprising the step of monitoring the quality of said herbal medicine by identifying a polar alkaloid in a sample of said herbal medicine.





**Full text available at patent office. For more in-depth searching go to**  LexisNexis  
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☐ 10. METHOD OF PURIFYING SUCCINIC ACID FROM FERMENTATION LIQUID

**KUSHIKU, Takeshi, Ajinomoto Co., Inc. / FUJIWARA, Kenji, Ajinomoto Co., Inc. / SATOU, Takeru, Ajinomoto Co., Inc. / SANO, Chiaki, Ajinomoto Co., Inc., EUROPEAN PATENT APPLICATION**, Jun 2006


Succinic acid is produced by bringing a succinic acid- containing liquid containing succinic acid and cation which is obtained by fermentation or an enzymatic method into contact with an H-type strongly acidic cation-exchange resin in an amount equivalent ...

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- ☐ **11. NANOSTRUCTURED ASSEMBLIES FOR SOLID PHASE EXTRACTION OF METAL IONS**  
**Ca, Diep Vu**, Jan 2005  
 The main goal of our research was to develop nanostructured materials for i) solid phase extraction of metal ions and ii) electrocatalytic systems. The selective preconcentration of cesium from aqueous solutions containing high concentrations of alkali ...  
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- ☐ **12. PROCESS FOR PRODUCING PROANTHOCYANIN-RICH MATERIAL**  
**TAKAGAKI, Kinya / MITSUI, Takeshi / YAMAGUCHI, Gotaro**, *EUROPEAN PATENT APPLICATION*, Dec 2005  
 ...then adding an appropriate solvent in a necessary amount. In particular, in the case of employing an aromatic resin such as **DIAION** HP-20, which will be described later, concentration of proanthocyanidins with a synthetic resin adsorbent is simply performed...  
**Full text available at patent office. For more in-depth searching go to**  LexisNexis  
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[similar results](#)
- ☐ **13. COMPOSITION FOR EXTERNAL USE**  
**MAEDA, Mitsuru / NAKAO, Masahiro / FUKAMI, Harukazu**, *EUROPEAN PATENT APPLICATION*, Mar 2006  
 ...metal salt type, or a H<sup>+</sup> type of a styrene- divinylbenzene **crosslinked** copolymer resin to which a sulfonic acid group is bound. Examples...Amberlite CG-120 (trade name) manufactured by Rohm & Haas, and **Diaion** SK104 (trade name) manufactured by Mitsubishi Chemical Corporation...  
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- ☐ **14. CYCLIC TERTIARY AMINE COMPOUND**  
**KIMURA, Tomio / OHKAWA, Nobuyuki / NAKAO, Akira / NAGASAKI, Takayoshi / SHIMOZATO, Takaichi**, *EUROPEAN PATENT APPLICATION*, Mar 2006  
 The present invention provides a cyclic tertiary amine compound which is capable of inhibiting the production of inflammatory cytokines. It is either a compound having a structure represented by the following general formula (I): <chemistry id="chema01" ...  
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- ☐ **15. Removal of Cr(VI) by solvent impregnated resins (SIR) containing aliquat 336**  
**Kabay, N. / Arda, M. / Saha, B. / Streat, M.**, *Reactive and Functional Polymers*, Jan 2003  
 ...Mitsubishi Co., Japan provided **DIAION** HP-20 and HP-2MG. The characteristics...this study 1 g of dry resin (**Diaion** HP-20 or HP-2MG) was immersed...present study, polymer adsorbents **Diaion** HP-20 and HP-2 MG were impregnated...similar phenomena to occur with **crosslinked** polymer beads. In addition...  
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- ☐ **16. Process for producing D-N-carbamoyl-alpha-amino acids**  
**Nanba, Hirokazu / Yajima, Kazuyoshi / Takano, Masayuki / Yamada, Yukio / Ikenaka, Yasuhiro / Takahashi, Satomi**, *EUROPEAN PATENT APPLICATION*, Jan 2006  
 ...Amberlite IRA935, IRA945, IRA901 (Rohm & Haas Co.: registered trade mark), Lewatit OC1037 (Bayer A.G.: registered trade mark) and **Diaion** EX-05 (Mitsubishi Chemical Industries, Ltd.: registered trade mark). Other supports such as DEAE-cellulose can also be used...


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- ☐ **17. Process for producing D-N-carbamoyl-alpha-amino acids**  
**Nanba, Hirokazu / Yajima, Kazuyoshi / Takano, Masayuki / Yamada, Yukio / Ikenaka, Yasuhiro / Takahashi, Satomi**, *EUROPEAN PATENT APPLICATION*, Jan 2006  
...Amberlite IRA935, IRA945, IRA901 (Rohm & Haas Co.: registered trade mark), Lewatit OC1037 (Bayer A.G.: registered trade mark) and **Diaion** EX-05 (Mitsubishi Chemical Industries, Ltd.: registered trade mark). Other supports such as DEAE-cellulose can also be used...

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- ☐ **18. Aldolase, and method for producing optically active IHOG and monatin**  
**Sugiyama, Masakazu / Watanabe, Kunihiro / Mori, Kenichi / Nozaki, Hiroyuki**, *EUROPEAN PATENT APPLICATION*, Dec 2005


A method for producing optically active IHOG useful for the production of monatin, a method for producing optically active monatin, and aldolase used for the methods are provided. 4-(Indole-3-ylmethyl)-4-hydroxy-2-oxoglutaric acid with high optical ...

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- ☐ **19. Sorption of Cr(VI) from aqueous solution by Amberlite XAD-7 resin impregnated with Aliquat 336**

**Saha, B. / Gill, R.J. / Bailey, D.G. / Kabay, N. / Arda, M.**, *Reactive and Functional Polymers*, Jul 2004

...containing Cyanex-302 as solvent and **Diaion** HP-1MG and HP-10 as polymeric...different polymer matrices, **Diaion** HP-20 and HP-2MG. **Diaion** HP-20 possesses a hydrophobic...namely Amberlite XAD-7 (a highly **crosslinked** macroreticular acrylic resin...

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- ☐ **20. Selective removal of the heavy metal ions from waters and industrial wastewaters by ion-exchange method**

**Dabrowski, A. / Hubicki, Z. / Podkoscielny, P. / Robens, E.**, *Chemosphere*, Jul 2004

...ion is recovered quantitatively by elution with 5% thiourea containing 0.1 M HCl solution ( Schwachau, 1984 ). Based on the **crosslinked** polystyrene, Amantech produced two ion-exchange macroporous chelating resins IN MSR (with thiol functional groups) and INTCR...

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